English

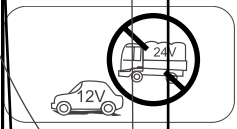
M-DVD5542R

DVD RECEIVER 7" DISPALY

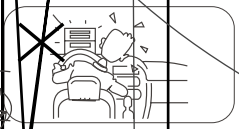
OWNER'S MANAUL

Safety Precautions

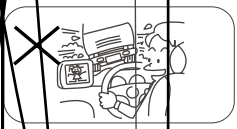
Only connect the unit to a 12-volt power supply with negative grounding.



Never install this unit where the operation & condition for safety driving is restrained.

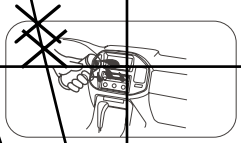


Never use the video display function in the front when driving to prevent the violation of laws & regulations and also to reduce the risk of traffic accident except using for rear view video camera.



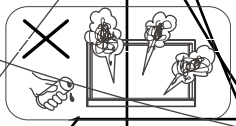
To ensure safe driving, please adjust the volume to a safe & comfort level in case of emergency situations.

Never expose this unit, amplifier, and speakers to moisture or water for preventing electric sparks or fires.



Please don't change the fuse on the power cord without professional guidance, using improper fuse may cause damage to this unit or even cause fire.

Please power off this unit at once and send it back to the after-sales service center or the dealer /distributor you purchased from if one of the following symptoms is found:



(a). Water or other obstacle enters the unit;
(b). Smoking;
(c). Peculiar smell.

Safety Precautions (continued)

Warning

Operate the unit correctly according to the manual instruction to prevent unnecessary problem.

Caution

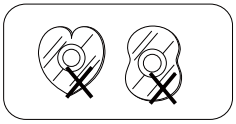
This product is a CLASS 1 LASER PRODUCT. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Do not open covers and do not repair yourself. Refer servicing to qualified personnel.

Two laser products

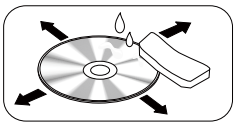
Wave length: CD: 780nm DVD: 650nm
Laser power: No hazardous radiation is emitted with safety protection.
To reduce the risk of fire electric shock, and annoying interference, use only the included components.

Caution of disc using

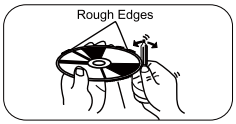
1. **DO NOT use irregular shaped disc.**



2. **Disc Cleaning.** Use a dry, soft cloth to wipe the disc from center to edge, only neutral detergent can be used.



3. **When playing a new disc.** New disc may have some rough spots around the inner and outer edges. If such a disc is used, remove these rough spots with a pencil or ball-point pen, etc.



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Features

DVD-R/RW compatibility

It is possible to playback DVD-R/RW discs recorded with the video format and Video Recording format.

Video CDs featuring PBC compatibility

It is possible to playback Video CDs featuring PBC (playback control).

WMA and MP3 compatibility

It is possible to playback WMA and MP3 files.

About WMA

The Windows Media™ logo printed on the box indicates that this unit can playback WMAdata.
!Windows Media and the Windows logo are trade marks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
!This unit maynot operate correctly depending on the application used to encode WMA files.

About MP3

Supply of this product only conveys a license for private, non-commercial use and does not convey a licensen or imply any right to use this product in any commercial (i.e.revenue-generating) realtime broadcasting (terrestrial, satellite, cable and/or any other media), broad-casting/streaming via internet, intranets and/or other networks or in other electronic con-tent distribution systems, such as pay-audio or audio-on-dem anda pplications. An indepen-dentlicense for such use is required.For de-tails, please visit http://www.mp3licensing.com.

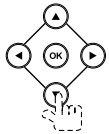
Button Operation Explanations

Touch panel key operation

It is possible to operate this unit by using touch panel key.

Some frequent operations

1) Move cursor



2) Confirm

Open the SOURCE MENU

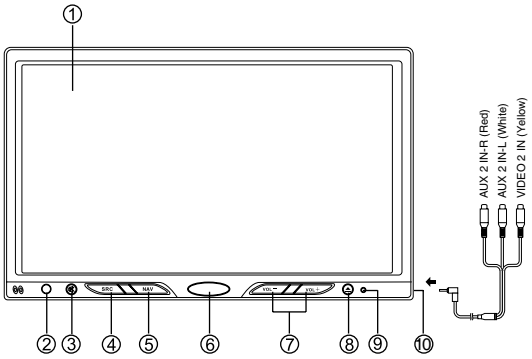
Touch the top left corner of TFT screen under playing mode.

Touch screen

Due to the touch screen, you can fulfill most functions not only by pressing buttons but also by touching the options you desired.

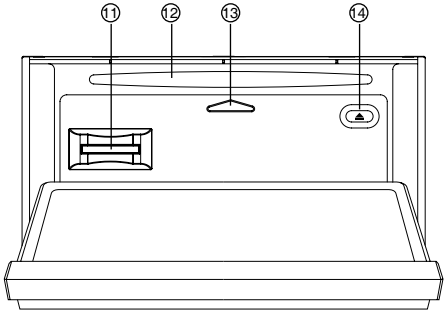
Panel Controls

Press POWER button (6) to turn on/off the unit.



1. - Touch panel
2. - Remote sensor
3. - Mute
4. - Select the following sources:
   >Radio
   >Disc (when disc inserted)
   >USB (when USB connected)
   >AV1 (rear AV in)
   >AV2 (front AV in)
   >Bluetooth
   >Navigation
5. - Navigation
6. - Turn the unit on/off
7. - Press to adjust volume level.
8. - Open the panel/Close the panel
   - Hold it to access panel menu:
   >Open the panel
   >Eject the disc
   >Close the panel
   >Adjust the panel angle (TILT+/-)
9. - Reset
10. - AUX 2 in jack (on the right side of the panel)
11. - Map card slot (SD/MMC card)
12. - Disc slot
13. - Indicator:
    It will light up when you slide the panel down.
14. - Eject disc (when disc inserted)
    - Reset the mechanism (press 2 sec.)

Press ⏏ button (8) to open the panel.

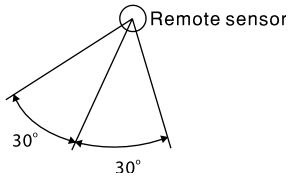


Safety Notes:
The DVD video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash DVD video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most countries for the driver to view video while the vehicle is in motion.

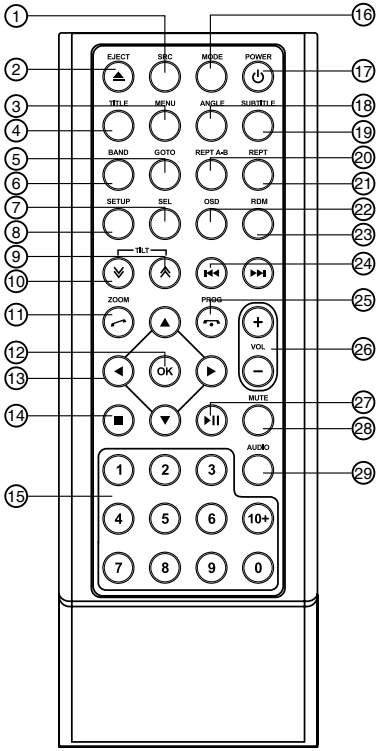
Remote Controls

Remote control operating range

The remote control can operate within a distance of 3~5m.
The remote control sensor is located to the left of POWER button.



Press ⏻ to turn on/off the unit.

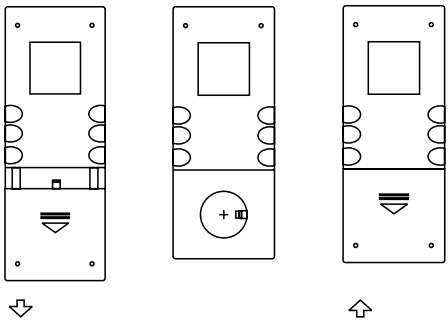


1. - Select the following sources:
   >Radio
   >Disc (when disc inserted)
   >USB (when USB connected)
   >AV1 (rear AV in)
   >AV2 (Front AV in)
   >Bluetooth
   >Navigation
2. - Disc eject
3. - Menu (DVD)
4. - Title (DVD)
5. - Goto search
6. - Radio band
   - Video system PAL/NTSC/AUTO
7. - Sound/display setting
   - Setting menu (long press)
8. - System setup
9. - Close the panel step by step
10. - Open the panel step by step
11. - Zoom (DVD/VCD)
    - Dial/Receive call
12. - Enter
13. - Menu cursor
14. - Stop/Return
15. - Digit area
16. - Enter source menu
17. - Power on/off
18. - Angle (DVD)
19. - DVD subtitle
20. - A-B repeat
21. - Repeat
22. - On screen display
23. - Track random play
24. - Radio tune
    - Track skip/seek
25. - Call off/cancel
    - Program
26. - Volume
27. - Play/Pause
28. - Mute
29. - DVD audio
    - VCD audio L/R/ST

Replacing the lithium battery of remote control unit

When the range of the operation of the card remote control becomes short or no functions while operating, replace the battery with a new lithium battery. Make sure the battery polarity replacement is correct.

1. Open the back cover of the remote control unit.
2. Insert the button-type battery with the stamped (+) mark facing upward.
3. Close the back cover.



Warning

- Store the battery where children cannot reach. If a child accidentally swallows the battery, consult a doctor immediately.
- Do not recharge, short, disassemble or heat the battery or dispose it in a fire.
- Do not expose or bring into contact the battery with other metallic materials. Doing this may cause the battery to give off heat, crack or start a fire.
- When throwing away or saving the battery, wrap it in tape and insulate; otherwise, the battery may give off heat, crack or start a fire.

Basic Operations

Turn on/off the power

1. Press POWER button to turn on the unit. The unit goes back to the last status after power on.
2. When on, press POWER button to turn off the unit.

Mute

Press to cut the sound.

Note:

- Pressing again or adjusting volume will release muting.
- MUTE appears on the TFT during muting.

Adjust the volume

Press VOL +/- to increase or decrease the volume level.
The adjustable range of volume is 0 to 39.

Playing source selection

Method 1:

Press **SRC** button on the panel or remote control to cycle through all the available sources.

Method 2:

Open the 'SOURCE MENU' by touch SRC at the top left corner of the TFT or press MODE button on remote control, and then touch the option you desired or select the option by moving the cursor and then confirm.

Note:

- When some devices are not ready, they cannot be selected.
- You should stop switching when the playing source you desired has been selected and wait for some seconds, the unit will auto enter the playing source mode you have selected.

When parking brake applied

1. If 'PRK SW' cable is connected to hand brake switch, the video display of the TFT monitor will be controlled by driving status, system setup and input video sources.
2. When the car is moving ahead, if the video disc is played, the screen appears "WARNING!! Engage Parking Brake to View Video", and blank screen. The above warning screen will prevent the driver watching images. The passengers at the rear seats can watch normally.

Disc Operation

Insert a disc

Press ⏏ on the panel to slide down the panel. Insert a disc into the slot, and the unit will change to disc mode automatically.

Note:

- Please confirm whether there is a disc in the unit before you insert another one.
- The unit will exit current playing source and enter DVD mode when one disc is inserted.
- Some recorded discs, such as CD-R, CD-RW, DVD-R, DVD+R, DVD-RW, DVD+RW cannot be played back because of different recording status. Otherwise, the discs without being closed could not be played back.

Eject the disc

Method 1:
Press ⏏ on the panel to slide down the panel. Press ⏏ (EJECT) to eject the disc.

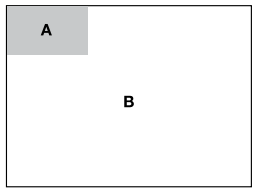
Method 2:
Press ⏏ on the panel more than 2 seconds to enter panel menu, and touch EJECT on the TFT to eject the disc.

Method 3:
Press ⏏ on the remote control to eject the disc.

Notes:
- After ejecting the disc, the unit reverts to SD card mode automatically if you have inserted one SD card, or the unit reverts to radio mode.
- You can eject a disc when the unit powered off. The unit remains off after the disc ejected.
- If the disc is not removed from the unit within 10 seconds, the disc will be reloaded to prevent accidental damage.

Using the touch screen controls

The touch key areas for CD/VCD/DVD playback are outlined below:



A - Turn to main source menu
B - Display on screen control menu

Disc Playback

1. When disc inserted, display shows READ. For MP3 or disc with mixed files, reading time may exceed 1 minute.
2. ERROR will be displayed if error found in disc operation.
3. For VCD/CD, VCD or CD icon will appear on the display.
4. While MP3/WMA files playback, MP3/WMA icon will appear on the display.
5. For DVD, DVD icon will appear on the display and TITLE appears. Press ⏯ to play.

File type supported

Audio file: MP3(*.mp3), WMA(*.wma)
Video file:
MP4 (*.avi, DIVX3.11/4.0/5.0/6.0 /7.0)
MPEG 2 (*.vob)
MPEG 1 (*.dat)
Picture file: JPEG (*.jpg)
MP3 file:
ISO 9660 or ISO 9660 + Joliet format - Max. 30 characters.
Max. nested directory is 8 levels.
The max. album number is 99.
The max. length of each track is 99 minutes 59 seconds.
Supported sampling frequency for MP3 disc: 8KHz to 48KHz (44.1KHz preferably).
Supported bit-rates of MP3 disc are: 32 - 320 kbps (128 kbps preferably).

Disc and file NOT supported

*.AAC, *.DLF, *.M3U, *.PLS, MP3 PRO files and files with DRM.
Open session discs.

Stop playback temporarily

- During playback, press ▶II to pause playback.
- The sound will be muted.
- Display "PAUSE II " in the TV screen. Press ▶II again to continue playback. To resume normal play, repeat the operation.

Stop playback entirely

During DVD, VCD, CD, MP3 playback:

1. Press ■ key on remote control once stopping the playback and the relevant location on the disc is saved, press ▶II to resume the playback from the saved disc location.
2. Press ■ twice to cease the playback. Press ▶II to start the playback from the very beginning the Title page of the DVD or the first track of VCD / CD.

Select desired track

- Press ⏮ or ⏭ to skip to the next track.
- Use 1-9 and 0, 10+ buttons on the remote control to select desired track number.

Fast forward/backward during playback

Press ⏮ or ⏭ for more than 2 seconds once or more to select X8 to fast backward or forward track during playback.

- During the fast forward or backward operation, press ⏯ briefly to playback again.
- During the fast forward or backward operation, the volume will be muted.

Intro (for CD/VCD only)

You can play the beginning of every track for 15 seconds in sequence.

1. During playback, press **INT** once. INT ON/OFF will appear on the display.
2. Press **INT** again to select the current track.

Random track playback (for CD/ VCD/MP3 Only)

You can play all the tracks in random order.

1. During playback, press **RDM** once or more. - RDM icon will appear on the display.
2. Press **RDM** again to select normal playback.

Repeat

During playback, press **REPT** once or more.

- RPT icon will appear on the display.
- For VCD/CD: Display appears RPT ONE → RPT ALL → RPT OFF
- For DVD: Display appears RPT CHAPTER → RPT TITLE → RPT OFF
- For File disc: Display appears RPT ONE → RPT DIR → RPT ALL → RPT OFF

Note:

If you do not select RPT on, when the entire disc or TITLE playback has finished, the system will stop. If no other control, after 5 minutes the unit will turn into standby mode.

Repeat A - B

Select desired passage to repeat playback.

- Press **REPT A-B** once to select starting point Display shows REPEAT A.
- Press **REPT A-B** again to select ending point. Display shows REPEAT A - B, and selected passage start to replay.
- Press **REPT A-B** once again to exit. Display shows A - B CANCELLED.

GOTO

Goto desired track/chapter or time point directly.

Press **GOTO** button on the remote control, track or DVD Title/Chapter and time display on top of the screen. Current item is highlighted. Use ◄ / ► to select desired item. Use digit button to select number. Press **ENTER** to confirm.

Program

- Press **PROG** to enter program list. Use ▲ / ▼ or ◄ / ► cursor and digit button to enter number.
  For DVD and File disc, select title and chapter number.
  For VCD and CD, select track number.
- Press ►II to play, or move the cursor to select "PLAY" and press **ENTER** to play.
- If you want to delete the list, move the cursor to "CLEAR", press **ENTER** to delete all the list set before.
- Press **PROG** again to exit program play.

DVD Audio Select

Press **AUDIO** or **R/L** to select audio language to listen if the DVD has multiple audio languages.

VCD Audio Select

Press **R/L** to select audio channel to listen.

L → R → Stereo

DVD Subtitle Select

Press **SUBTITLE** to select the subtitle language to show if the DVD has multiple language subtitles.

DVD Title Select

Press **TITLE** to display title or chapter list, use ◄ / ► or ▲ / ▼ cursor or digit number to select, press **ENTER** to play.

DVD Angle Select

Press **ANGLE** to select different angle to view if the DVD has multiple-angle views.

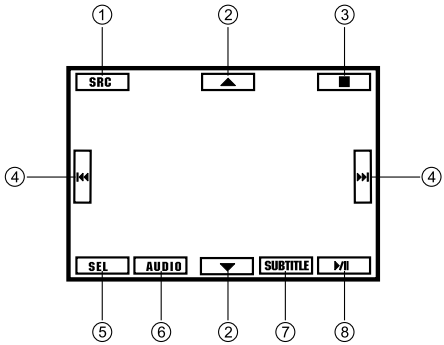
ZOOM

Press **ZOOM** button, the picture will be zoomed accordingly.

X2 → X3 → X4 → X1/2 → X1/3 → X1/4 → OFF

DVD Playback Menu

While playback touch the center of the screen:

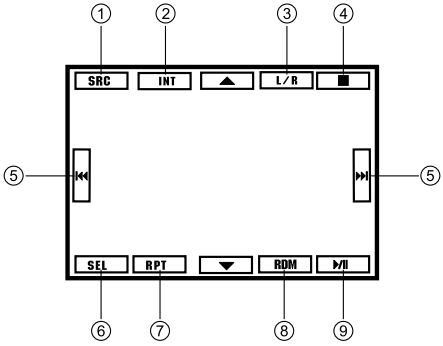


Touch the icon to access desired function.

1. Display source menu
3. Stop
4. Track skip/seek
   DVD menu left/right
5. Display Select Menu
6. Audio select
7. Subtitle select
8. Play/Pause/Enter

Video CD Playback Menu

While playback touch the center of the screen:



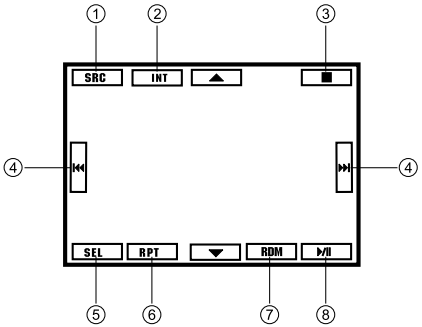
Touch the icon to access desired function.

1. Display source menu
2. Track intro play
3. Audio select
4. Stop
5. Track skip/seek
6. Display select menu
7. Repeat play
8. Random play
9. Play/Pause

Disc Operation (continued)

CD Playback Menu

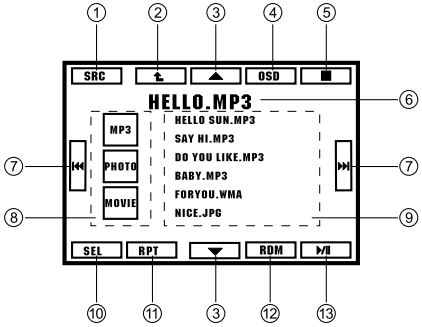
While playback touch the center of the screen:



Touch the icon to access desired function.

1. Display source menu
2. Track intro play
3. Stop
4. Track skip/seek
5. Display select menu
6. Repeat play
7. Random play
8. Play/Pause

MP3/MP4/PHOTO Menu

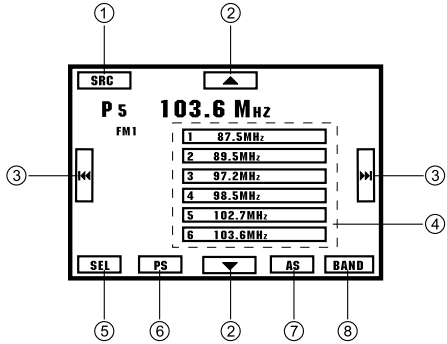


Touch to access desired function.

1. Display source menu
2. Back to upper folder
3. Track up/down
4. Display playback info
5. Stop
6. Track and ID3 display
7. Track skip/seek
8. MP4/MP3/PHOTO select
9. Track select / Folder select
10. Display select menu
11. Repeat play
12. Random play
13. Play/Pause

Tuner Operation

Radio Menu



Touch to access desired function:

1. Display source menu.
2. Select previous/next preset station.
3. Touch to tune automatically.
   Press more than 2 seconds to tune manually.
4. Touch to select preset station 1-6.
5. Display select menu.
6. Hold it to scan preset stations .
7. Auto search and store stations.
8. Band switch:
   FM1-FM2-FM3-MW1-MW2

RDS Basics

RDS service availability varies with areas. Please understand if RDS service is not available in you area, the following service is not available.

AF Mode

AF (Alternative Frequency): When the radio signal strength is poor, enabling the AF function will allow the unit to automatically search another station with the same PI (program identification) as the current station but with stronger signal strength.

Source menu -> SETTING menu ->RDS Setting menu -> AF ON/OFF
AF ON: AF function is activated.
AF OFF: AF function is disabled.
Remark: AF indicator on LCD will flash until RDS information is received. If RDS service is not available in your area, turn off the AF mode.

TA Mode
Some RDS FM stations periodically provide traffic information.
TP (Traffic Program Identification)
Broadcasting of traffic information
TA (Traffic Announcements Identification)
Radio announcements on traffic conditions

Source menu -> SETTING menu ->RDS Setting menu -> TA ON/OFF.
When TA mode is turned on, the TA indicator will blink.
When traffic announcement is received, the TA indicator will display. The unit will temporarily switch to the tuner mode (regardless of the current mode) and begin broadcasting the announcement at TA volume level. After the traffic announcement is over, it will return to the previous mode and volume level. When TA is turned on, SEEK, SCAN, AMS function can only be received or saved when traffic program identification (TP) code is received.

TA SEEK/TA ALARM
Source menu -> SETTING menu ->RDS Setting menu -> TA SEEK/ALARM.
If the TA (Traffic Announcements) is turned on and there is no traffic program identification code received in the specified time, no TA/TP will display and either TA ALARM or TA SEEK will be activated.
TA ALARM mode: Alarm is turned on.
TA SEEK mode: TA SEEK is automatically activated.

TA VOL
Source menu -> SETTING menu ->RDS Setting menu -> TA VOL

RETUNE Mode
Source menu -> SETTING menu ->RDS Setting menu -> RETUNE L/S
RETUNE-S or RETUNE-L is time length selection of TA SEEK retune interval.
RETUNE-S: Short, TA SEEK retune interval is 45 seconds.
RETUNE-L: Long, TA SEEK retune interval is 180 seconds.
REMARK: RETUNE mode functions for TA during TA SEEK mode only.

REG Mode
Source menu -> SETTING menu ->RDS Setting menu -> REG ON/OFF.
REG ON: AF function will implement the regional code (of the PI) and only stations in the current region can be tuned automatically.
REG OFF: AF function will ignore the regional code (of the PI) and stations in the other regions can also be tuned automatically.

EON (Enhanced Other Networks)
When EON data is received, the EON indicator lights and the TA and AF functions are enhanced.
TA: Traffic information can be received from the current station or stations in other network.
AF: The frequency list of preset RDS stations is updated by EON data. EON enables the radio to make fuller use of RDS information. It constantly updates the AF list of preset stations, including the one that currently tuned into. If you preset a station around the area at your home, you will later be able to receive the same station at an alternative frequency, or any other station serving the same program, EON also keeps track of locally available TP stations for quick reception.

Map Card and USB Operation

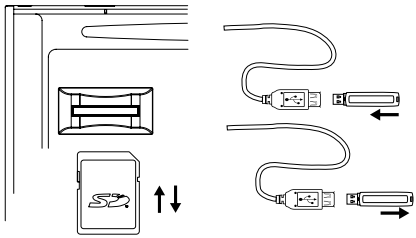
Using Map Card (SD/MMC Card)

1. To open the panel first, press the ⏏ button on the panel. Insert a map card into the corresponding slot, the unit will load the map and switch to navigation mode automatically, then navigating by the touch screen.
2. To remove the card, you should first select another source, in order to avoid damaging the card, then slide down the panel, press the card slightly, and take off the card after it popped out.
   Note: You can control the panel using the touch panel control, refer to previous section: “Panel Control”.

* The panel cannot close if the map card was not fully inserted or did not remove after popped it up.

Using USB device

1. Connect your USB device to the USB cable which you placed in the dashboard or glove box during installation of the car radio.
   When connecting a USB device, the unit will read the files automatically.
2. To remove the USB device, you should first select another source, in order to avoid damaging the USB device.



USB Notes

USB functions (flash memory type) MP3 music play

1. USB flash memory 2 in 1 support
2. Fat 12/fat 16/fat 32 is possible
   - Fat 12/16 (dir: 200 support, file: 500 support)
   - Fat 32 (dir: 200 support, file: 500 support)
3. File name: 32 byte/dir name: 32 byte /tag name: 32 byte
4. Tag (ID3 tag ver 2.0)
   - Title/artist/album: 32 byte support
5. USB 1.1/2.0 support
   (It can not support USB 2.0 speed. Just, get the same speed with USB 1.1)
   Not all kinds of USB devices are compatible with the unit.

Bluetooth Operation

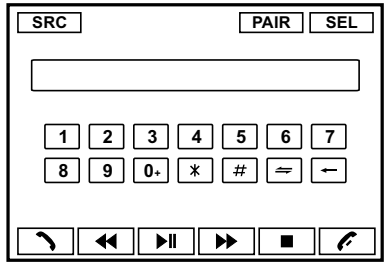
Note:

For your safety, avoid talking on the phone as much as possible while driving.

Bluetooth is a wireless transmission way for short distance. The built-in Bluetooth can connect with the mobile phones having Bluetooth function.
After connecting, you can control your mobile phone through the unit.

Pairing

Use this function to establish a connection between the unit and your mobile phone.
Press the **SRC** button repeatedly on the panel or touch BT on the SOURCE menu to enter BlueTooth mode.



Touch PAIR, then “WAITING FOR PAIRING“ appears on the TFT .

Turn on Bluetooth function of your mobile phone, keep phone within 3 meters to the unit and start to search for Bluetooth devices.
After the name of the Bluetooth module “SUN-BMA19” appears on the pairing list of your mobile phone, select it. At this time, a pairing code is required. Enter the pairing code (“1234” by default) and the Bluetooth pairing will process automatically. Some mobile phones may instruct you to select connect or disconnect, please select connecting.
After pairing successfully, the Bluetooth icon stops to blink, “PAIR OK” will appear on the screen.

To stop pairing, press PAIR during pairing.

Exit Pair

After pair successfully, if you want to disconnect, press PAIR button. The TFT of the unit display “EXIT PAIR”, Bluetooth icon disappear.

Dial

1. Input dial number by the number button on the TFT, touch or press key on the remote control to dial out.
2. Touch or press key on the remote control to cancel.

Receive

1. After pair successfully, if there is a call incoming, the unit switch to BT mode automatically.
2. Touch or press key on the remote control to receive.
3. Touch or press key on the remote control to hang up.

Voice Transfer

During talking, touch to transfer audio from the unit to your mobile phone, and touch again to transfer audio from your mobile phone to the unit.

Note:

Some mobile phones will transfer audio from the unit to themselves once the incoming call is answered.

BT Audio

(if the mobile phone has the A2DP & AVRCP functions)

After pair successfully, in Bluetooth main menu, open the audio player of your mobile phone and set the transmission mode to Bluetooth. At this time, the unit screen will appear “MUSIC PLAYING”, and the audio will be transferred from the mobile phone to the unit. Some mobile phones may hint that to connect with the unit. After found the Bluetooth device name “SUN-BMA19” on mobile phone, you should select to connect it, and then input the pairing code (“1234” by default). When music playback, touch ▶II to play/pause, and press I◀◀ / ▶▶I key on the TFT or remote control to previous/next track (if the options are available).

History

After pair successfully, touch or press key on the remote control to dial out the last dialed number.

BT MENU General Operation

Press the **SRC** button on the panel or the touch key to enter SOURCE main menu, touch SET to enter the unit system setting menu, then touch BT to enter BT setting menu.

1. PAIR ON/OFF

Set the automatically pair on or off. If select ON, the unit will pair automatically and “WAITING FOR PAIRING” will appear on the screen.

2. CONNECT ON/OFF

Set the automatic connection on or off.

When CONNECT ON and Paired OK, if the distance is over 10 metres, the connection will exit. The Bluetooth technology will automatically establish a connection between the unit and the registered mobile phone when the transmission distance is 10 metres or shorter.

When CONNECT OFF and Paired OK, if the distance is over 10 metres, the connection will exit. The Bluetooth technology will not automatically establish a connection between the unit and the registered mobile phone when the transmission distance is 10 metres or shorter.

Whether the automatic connections is set ON or OFF, when power is off then on again, the unit Bluetooth will connect the mobile phone (if the Bluetooth function turning on) which is paired OK last time.

3. ANSWER ON/OFF

Set the automatic answering a call ON/OFF.

When ANSWER ON and Paired OK, if there is an incoming call, in 15 seconds, the unit will answer automatically, and voice will be transferred to the unit too.

When ANSWER OFF and Paired OK, if there is an incoming call, the unit will not answer automatically until you choose receiving or rejecting.

Music Mode

A2DP

A2DP is short for Advanced Audio Distribution Profile. The mobile phones supporting this function can transmit stereo audio, whereas the ones not supporting this function can transmit mono audio only.

AVRCP

AVRCP is short for Audio/Video Remote Control Profile. The mobile phones supporting this function can control the playback of a Bluetooth audio player.

In the mode of the music player working, if you want to make a phone call, you can press the number keys on the mobile phone or on the remote control, then touch to dial. At the same time the music player will stop. The TFT screen will appear “DIALLING”, after the call received, the voice will be transferred to the unit. When the call end, the TFT screen will appear “MUSIC PLAYING”. Some mobile phone may instruct whether resume to playback.

If there is an incoming phone call, the music player will stop, and the TFT screen will appear “PHONE NUMBER ANSWER?”. When the call ends, the TFT screen will appear “MUSIC PLAYER”. Some mobile phone may instruct whether resume to playback.

General Notes for Bluetooth

1. For N7X, N9X, PHILIPS, Sony Ericssion, SAMSUNG mobile phones, during our test, after the mobile phones appear connection successful, the unit still appear waiting for pairing. At this time you must find the unit’s Bluetooth module name “SUN-BMA19” on the pairing list on your mobile phone and select connecting in the submenu, then the unit will appear pair OK. Otherwise, there is no voice coming out when communicating, though the mobile phone has already displayed pair OK. Some mobile phones, such as PHILIPS, when it playbacks A2DP, you must find the unit “SUN-BMA19” in the phone’s menu and reconnect (check your mobile phone whether has the A2DP & AVRCP functions).
2. When pairing, some types of mobile phone hint that how to operate, for example, when you make a phone call by the unit, if the mobile phone voice doesn’t be transferred to the unit, no voice comes out. The SAMSUNG mobile phone hints that voice should be transferred to Bluetooth device.
3. Depending on the mobile phone, if private mode is selected, when you make a phone call by the unit, or receive, the voice would be transferred to the mobile phone. But sometime the Bluetooth maybe disconnect till the communication ends, then connects your mobile phone to the unit automatically. Some mobile phones maybe need pair again.
4. For mobile phone, the Bluetooth device name must be primary symbols or numbers. Otherwise, some unpredictable issues may occur during the Bluetooth devices connecting and making phone call.
5. After paired OK, if no sound produced, please check whether the Bluetooth stereo audio on the phone switched ON.

Other Mode

AV IN mode

External peripheral devices with RCA audio and video outputs can be connected with the unit.

For more details, please refer to < Electrical Connections>.

NAV mode

Navigation system can be supported by the MAP card connected with the unit.

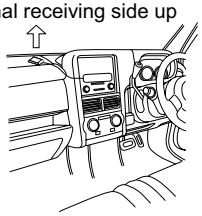
For more details, please refer to <Navigation>.

GPS Antenna Installation Guide

You can mount the GPS antenna in the car or out of the car.

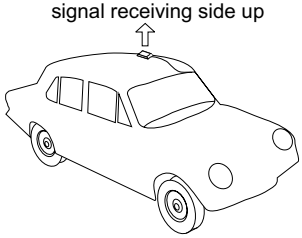
- Fix the GPS antenna to a suitable position on the dashboard behind the windscreen, and ensure no obstacles to receive GPS signals. When the satellites determine your position, the navigation system can supply instruction information. At the time the satellites do not determine your position completely, the navigation system can not supply instruction.

GPS Antenna,
signal receiving side up



- Place the GPS antenna on the top of the car outside, no obstacles on the receiving direction.

GPS Antenna,
signal receiving side up



DVD Setup

Press **SETUP** to display setup menu on the screen.
Use ◄/► to select setup items:
SYSTEM - LANGUAGE - AUDIO - VIDEO

SYSTEM

TV System:
NTSC/PAL/AUTO

Select the output video format in the setting menu.

Screen Saver:

ON/OFF
The screen saver appears if disc stop last more than 3 minutes. Original setting: ON.

Video Output Mode:

S-VIDEO

Setting TV type:

4:3PS/4:3LB/16:9
Select TV type to watch wide screen movies.
4:3 Pan Scan: For 4:3 TV, left and right edges will be cut.
4:3 Letter Box: For 4:3 TV, black bars will appear on top and bottom.
16:9: For 16:9 wide screen TV.

Password:

1. Press number button " 0000 " on the remote control, then press the **ENTER** button to confirm.
2. Press the desired 4-digit password, and then press **ENTER** button to confirm.
3. Record the password and keep it in a safe place for future reference.

If you forget the password, please enter 0000 to reset a new password.

Setting Rating:
1 KID SAFE/2 G/3 PG/4 PG13/5 PG-R/6 R/ 7 NC-17/8 ADULT
The rating of the disc is from 1 to 8:
(1) with the most limits when playing.
(8) with the least limits when playing.
Original setting: 8

Note:
The rating can be selected only under the password unlocked status, and the limits can be worked only under the password locked status.

Load Default:
RESTORE

If this item is selected, the unit will return to original setting.

LANGUAGE

OSD Language
Select one language that you are familiar with to display system menu.

Audio Language
Select one dialogue language that you are familiar with when playing back DVD discs.

Note:

If the DVD disc has the audio file in the selected language, the dialogues you listened to will be in the selected language.
If the DVD disc does not contain the audio file in the selected language, the dialogues you listened to will be in the default language.
You can change the language by pressing [AUDIO] key of the remote controller.

Subtitle Language
Select one language that you are familiar with to display DVD subtitles.

If the DVD disc has the subtitle file in the selected language, the subtitle will be displayed in the selected language.
If the DVD disc does not contain the subtitle file in the selected language, the subtitle will be displayed in the default language.
You can change the language by pressing [Subtitle] key of the remote controller.

Menu Language
Select one language that you are familiar with to display DVD menu.

Note:

If the DVD disc has the selected language, the DVD MENU / TITLE will be displayed in the selected language.
If the DVD disc does not contain the selected language, the DVD MENU/ TITLE will be displayed in the default language.

AUDIO

KEY
Setup the tonality with the ▲/▼ buttons.

VIDEO

BRIGHTNESS
Set the brightness of the video output with ▲/▼.

CONTRAST
Set the contrast of the video output with ▲/▼.

HUE
Set the hue of the video output with ▲/▼.

SATURATION
Set the saturation of the video output with ▲/▼.

SHARPNESS
Set the sharpness of the video output with ▲/▼.

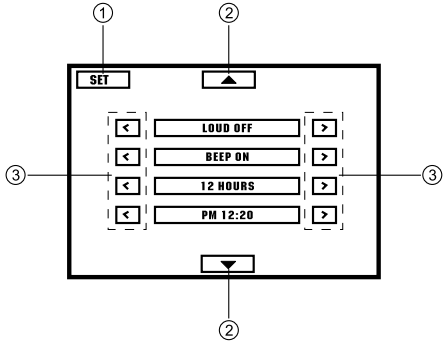
System Setup

Sound Effect & TFT Setup

Touch SEL on the TFT, or press SEL button on the remote control to enter SELECT menu.
Touch the TFT or use remote control to adjust Audio/Video settings:
Audio: EQ sound effect(Flat-Pop-Rock-Clas.-OFF)/BASS/TREBLE/BALANCE/FADER
Video: BRIGHTNESS/CONTRAST/COLOR/DIM

SETUP Menu

Source menu -> Setting menu -> Setup menu
Touch the adjust icon on left or right to select.
Touch the up/down icon to access next/previous list.



1. Display Source Menu
2. List up/down
3. Adjust

LOUD ON/OFF: Press ❮ / ❯ to turn loudness on/off.
BEEP ON/OFF: Press ❮ / ❯ to turn button beep sound on/off.
12/24 HOURS: Press ❮ / ❯ to select 12 hours or 24 hours mode.
🕘 /AM/PM: Press ❮ to set hours and press ❯ to set minutes.
VOL LAST/ADJUST: Press ❮ / ❯ to choose VOL LAST, the turn-on volume level is the volume level of latest power off.
Press ❮ / ❯ to choose VOL ADJUST, then set the turn-on volume level by the next option.
A VOL: Press ❮ / ❯ to adjust volume level when VOL ADJ mode is active.
MIRROR ON/OFF: Press ❮ / ❯ to turn mirror mode on or off. While enter MIRROR IMAGE ON mode, the video of camera is mirror image.
PARKING ON/OFF: Press ❮ / ❯ to turn rear parking attention on or off. At PARKING ON mode, play video disc, the screen appears:
"WARNING!! Engage Parking Brake to View Video", and blank screen.
SUBW ON/OFF: Press ❮ / ❯ to turn subwoofer on/off.
SUB VOL: Press ❮ / ❯ to adjust subwoofer volume when SUB ON mode is active.

Device Connections

Notes of connection

- This unit is designed to be used in a vehicle with a 12-volt battery and negative grounding. Before installing this unit to a recreational vehicle, a bus, or a truck, make sure the battery voltage is appropriate for this unit to be used, otherwise, install a transformer by professional to convert the output voltage to 12V.

- To avoid short circuit in the electrical system, ensure that the negative battery cable is disconnected before installation.

- To prevent short circuit in the wiring and damaging to this unit, secure all wirings with cable clamp or adhesive tape. Route the wirings in a secured, out of heating place without touching any moving parts such as gear shift, handbrake, and seat rails to prevent the wiring insulation being melted / wore off.

- Never pass the yellow power cord through the installation hole into the engine compartment and connect to the car battery. Otherwise, a high possibility of serious short circuit to the electrical system may be occurred.

- Replacing a new fuse with 15A rating when the old one is broken, using no fuse or fuse with improper rating may cause damage to this unit or even fires. If a proper fuse is installed and electrical problems still occur, please contact with any professional car shops for inquiry.

- DO NOT connect other equipments with the car battery to avoid battery overheating.

- Please make sure all the wiring connections & the cables of the Speakers are well-insulated. Otherwise, this unit may be damaged by short circuit.

- If there is no ACC available, please connect ACC lead to the power supply with a switch.

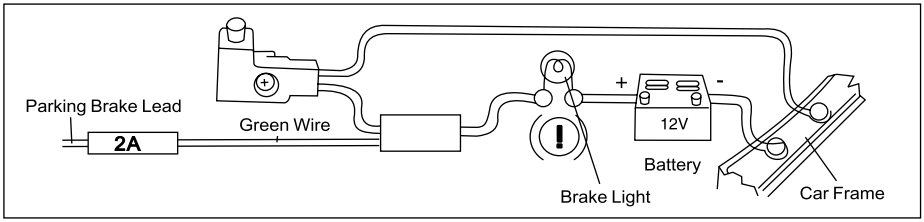
- If an external power amplifier is connected, please don't connect P.CONT lead to the power lead of the external power amplifier, otherwise, electric spark or other damage may be resulted.

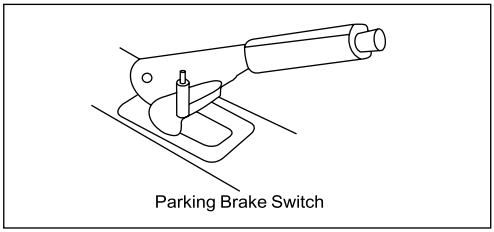
- Never ground the speaker output to prevent the damage to the built-in power amplifier.

- The minimum rating of the speakers connected to this unit is 45W with 4 to 8Ω impedance.

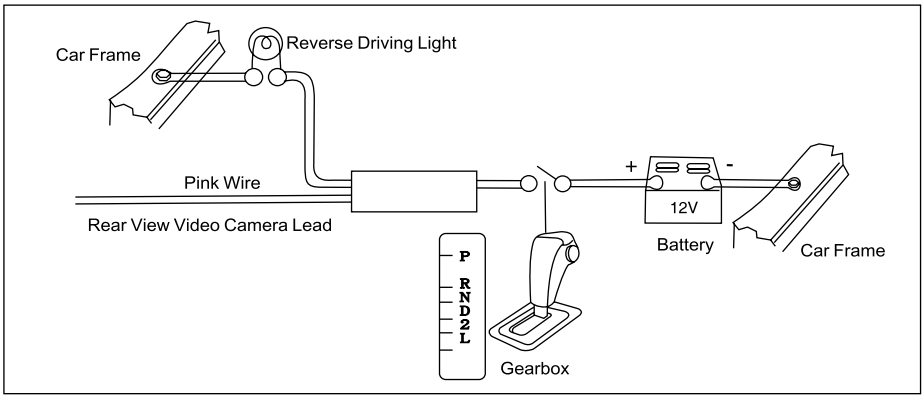
Device Connections (continued)

Parking Brake Cable Connections



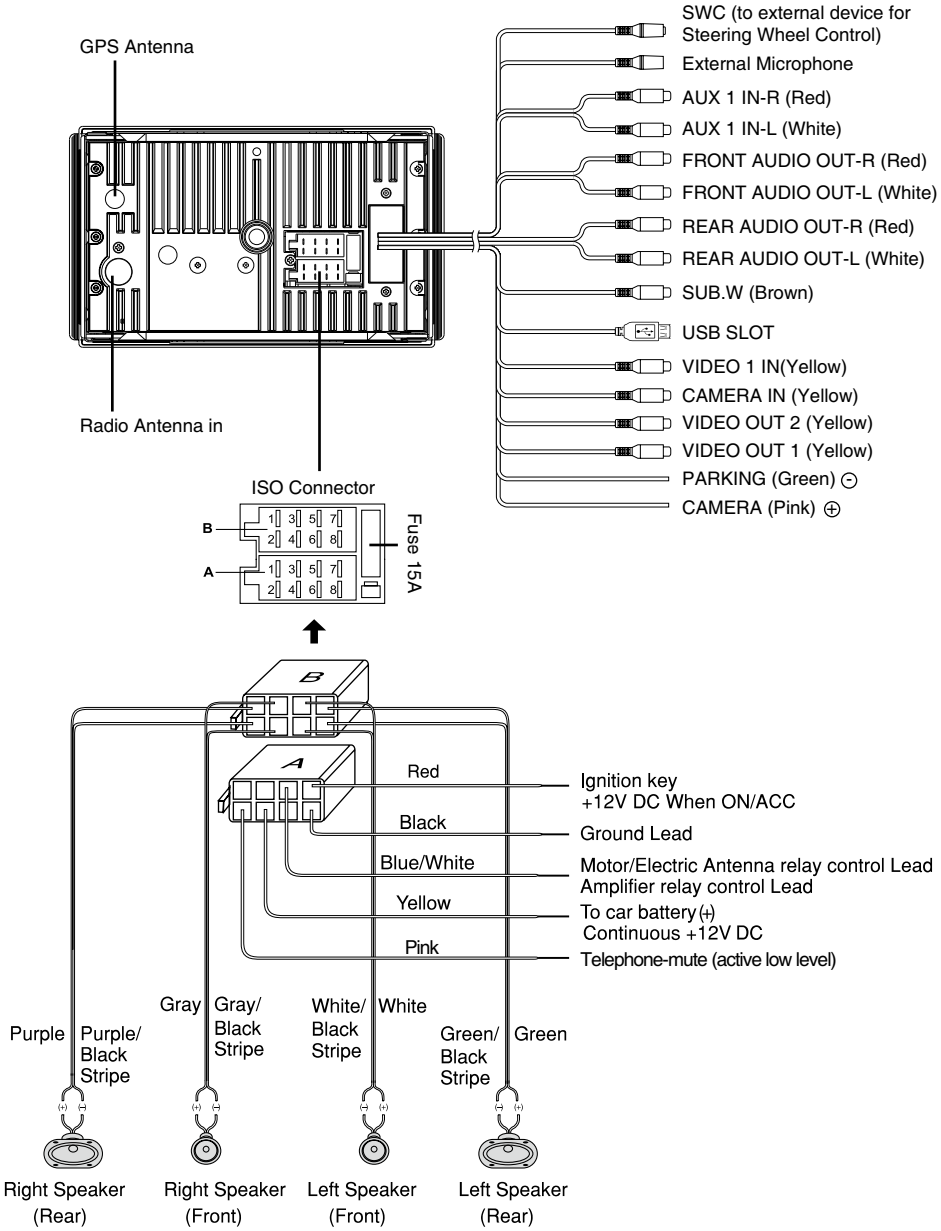


Reverse Driving Cable Connections



Electrical Connections

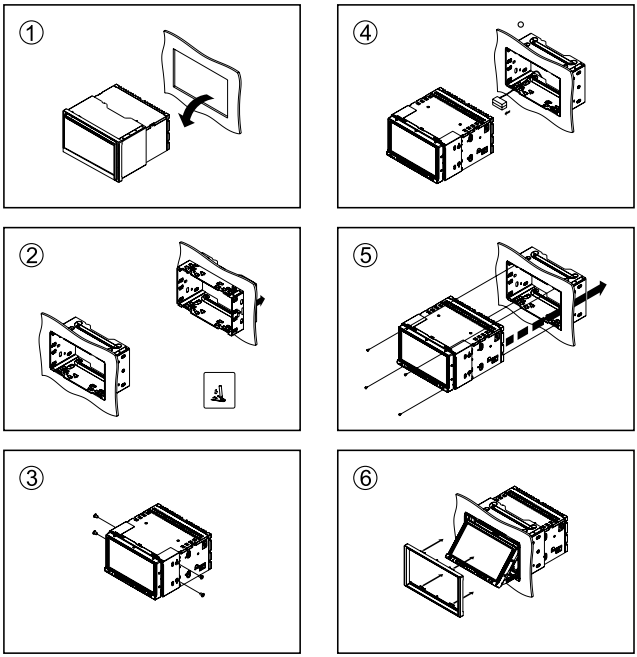
Wiring Diagram



Installation Guide

Important: Remove the two screws on the top of the unit before installation, otherwise, the unit will not work.

1. If relevant, remove any other audio system from the car.
2. After unscrewing the four car radio attachment screws, insert the mounting sleeve into the dashboard. Fix it firmly in place by folding down the metal tabs.
3. If this has not already been done, attach the brackets (2x) to the car radio.
   In order to do this, use the supplied flat head screws (M5x6mm).
4. Perform the required electrical connections:
   - If necessary, connect the hand brake wire to your hand brake contact in order to activate the video display when playing a DVD (when the car is parked).
   - Connect the wire that activates the reversing camera to the reversing sensor or to a reversing light. If necessary, connect your reversing camera to the car radio's reversing camera input using a video cable (not supplied).
   - Ensure that you now place the USB cable located at the back of the unit in such a way that it comes out of the dashboard or the glove box.
   Then check that everything works before installing the main unit in the mounting sleeve.
   Note: if necessary, use the mounting screws and bolt rubber to complete installation of the unit.
5. Install the unit in the dashboard using the supplied flat head screws (M2, 6x5mm).
6. Turn on the unit and slide down the panel, then attach the outer trim frame.
   If you are not sure how to install this unit correctly, contact a qualified technician.



* If you couldn't fix the unit by folding down the metal tabs of mounting sleeve (as step 2), install the unit by using the supplied screws (M5x6mm) after step 5.

* If you are not sure how to install this unit correctly, contact a qualified technician.

Troubleshooting

The following checklist can help you solve the problems which you may encounter when using the unit. Before consulting it, check the connections and follow the instructions in the user manual.

Problem	Possible cause	Solution
General		
The unit will not switch on.	Car ignition is not on. Cable is not properly connected. Fuse is burnt.	Turn your car key in the ignition. Check cable connection. Replace fuse with a new fuse of the same capacity.
No sound	Volume is set at minimum or the mute function is on.	Check the volume or switch the mute function off.
The unit or screen does not function normally.	The unit system is unstable.	Press the RESET button.
DVD mode		
The appliance will not play discs.	The disc is inserted incorrectly. The disc is dirty or damaged.	Disc must be inserted with the label side facing up. Clean the disc and check for damage. Try another disc.
Sound skips due to vibration.	Mounting angle is over 30˚. Mounting is unstable.	Adjust mounting angle to less than 30˚. Mount the unit securely with the supplied parts.
TUNER mode		
Unable to receive stations.	The antenna is not connected properly.	Connect the antenna properly.
Poor quality reception of radio station.	The antenna is not fully extended or it is broken.	Fully extend the antenna and if broken, replace it with a new one.
Preset stations are lost.	The battery cable is not properly connected.	Connect the permanent live on the unit to the permanent live on the vehicle.
USB/SD/MMC mode		
Unable to insert USB device or SD/MMC card.	The memory card or USB device has been inserted the wrong way round.	Insert it the other way around.
The USB device or SD/MMC card cannot be read.	NTFS format is not supported.	Check that the USB disk file system is in FAT or FAT32 format. Due to different formats, some models of USB storage devices or MP3 players may not be read.
	The SD/MMC card is not map card.	Using a map card.
Remote control		
The remote control is not working or does not work properly	The batteries are low or empty.	Change the batteries.

Specifications

General

Power supply	12V DC (11V-16V) Test voltage 14.4V, negative ground
Maximum power output	45Wx4 channels
Continuous power output	20Wx4 channels (4Ω 10% T.H.D.)
Suitable speaker impedance	4-8 ohm
Pre-Amp output voltage	4.0V (CD play mode: 1KHz, 0 dB, 10KΩ load)
Fuse	15A
Dimensions (WxHxD)	
- Chassis	178x100x164mm
- Nose	170x105x21
Weight	3.0kg
Aux-in level	⩾300mV
Sub-out	4.0V

Disc Player

System	Disc digital audio system
Frequency response	20Hz - 20KHz
Signal/noise ratio	>80dB
Total harmonic distortion	Less than 0.20% (1KHz)
Channel separation	>60dB
Video signal output	NTSC/PAL
Video output level	1±0.2V
Video signal input	NTSC/PAL

7 INCH TFT LCD

Display resolution (dot)	480RGB(W) x 234(H)
Active area (mm)	154.08(W) x 86.58(H)
Screen size (inch)	7.0 (Diagonal)
Dot pitch (mm)	0.107(W)×0.370(H)
Contrast ratio	300
Brightness	⩾350 nits

FM Stereo Radio

Frequency range	87.5-108.0MHz (Europe) 87.5-107.9MHz (USA)
Usable sensitivity	8dBμ
Frequency response	30Hz-15KHz
Stereo separation	30dB (1KHz)
Image response ratio	50dB
IF response ratio	70dB
Signal/noise ratio	>55dB

AM(MW) Radio

Frequency range	522-1620KHz (Europe) 530-1710KHz (USA)
Usable sensitivity	30dBμ

Components

Machine screws M5x6 mm	4
Mounting bolt (50 mm)	1
Wire connector	2
Trim plate	1
Operating Instructions	1
Rubber cushion	1
Remote control	1
External microphone	1

Note: Specifications and the design are subject to change without notice due to improvements in technology.

Stampato su carta riciclata

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